



JupyterHub Basics (Exercise and Notebooks) Michele Thornton & Rupesh Shrestha

- NotebookBasics.ipynb
- SMCE_Basics.ipynb



Exercise: Jupyter Hub Basics



Jupyter Hub Basics: BioSCape SMCE

https://cloud.bioscape.io
 YES! Go there

- BioSCape SMCE User Guide
 - https://bioscape-smce-user-guide.readthedocs.io/en/latest/index.html

https://cloud.bioscape.io



Welcome to BioSCape Cloud!

The BioSCape Cloud provides direct access to data and computational resources in your browser. Request access at bioscape.io/data.



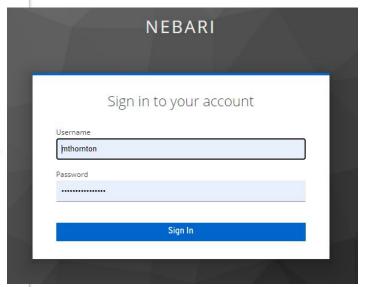
Biodiversity Survey of the Cape

BioSCape is a research project that uses remote sensing and field data to understand the distribution, function, and importance of biodiversity on land and in the water in the Greater Cape Floristic Region (GCFR), one of the world's 36 biodiversity hotspots.

Explore bioscape.io to learn more.

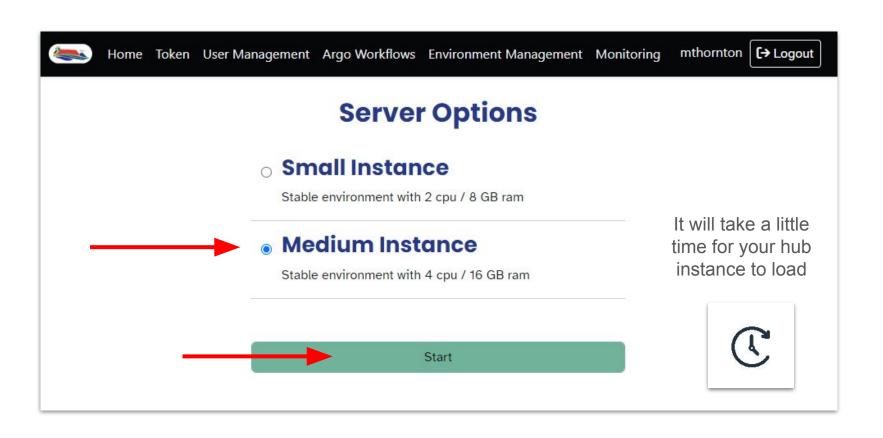
Thanks to NASA, NSF-SAEON, UNESCO, and Amazon Web Services.

You should already have a SMCE login, (as well as an Earthdata login)





Sign in with Keycloak



Your server is starting up.

You will be redirected automatically when it's ready for you.

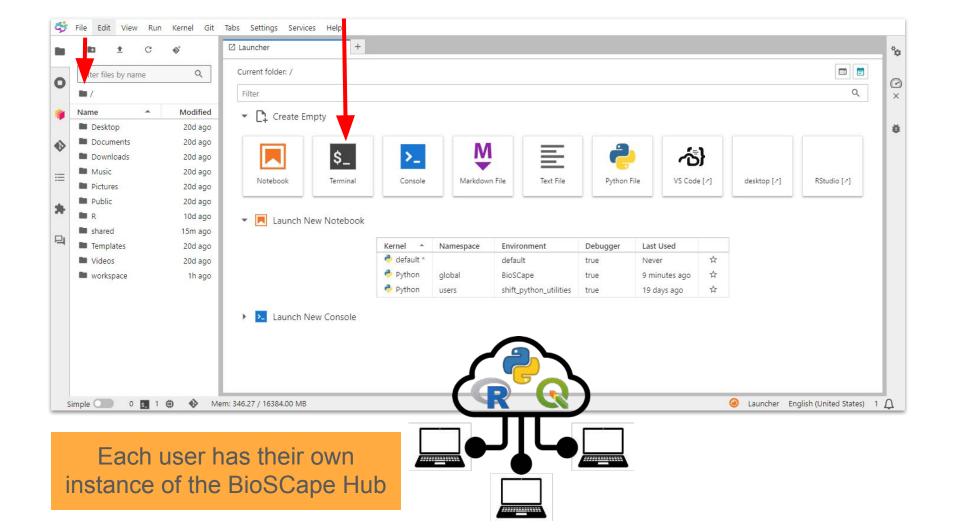
Server ready at /user/mthornton/

► Event log



It will take a little time for your hub instance to load

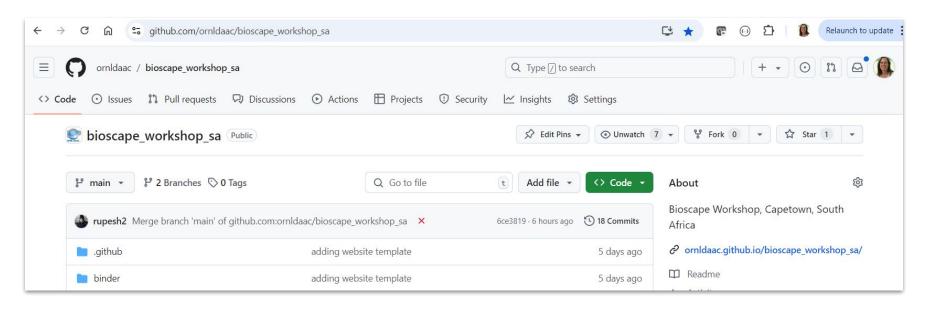
Your JupyterHub instance is being allocated in AWS

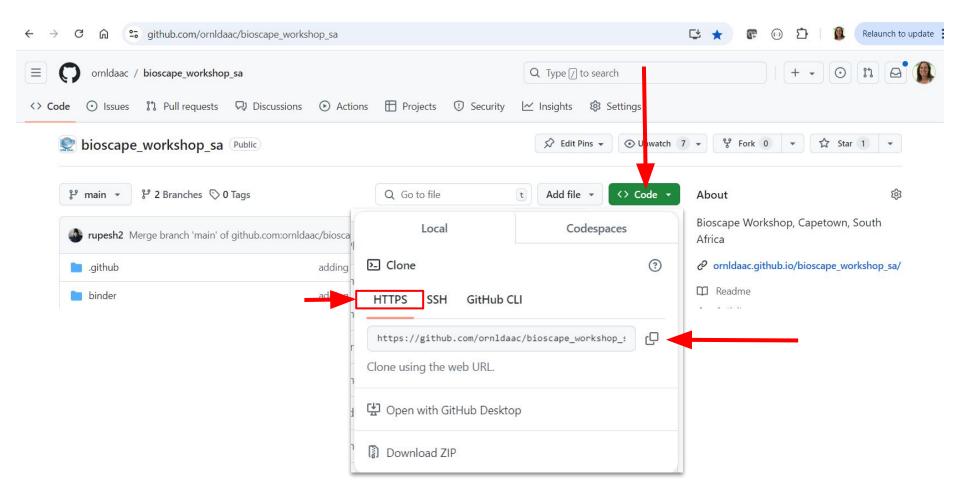


Clone the BioSCape Workshop Repo

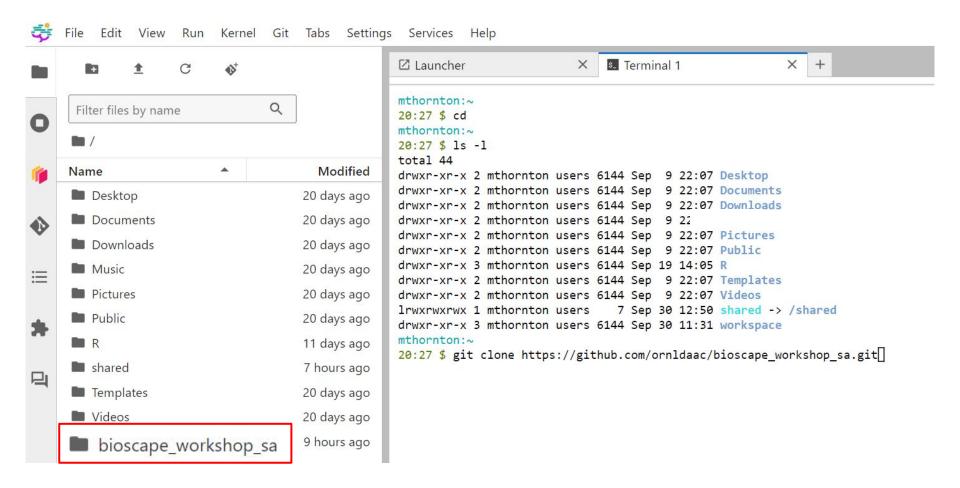
We're going to clone the BioSCape Workshop repository into your BioSCape SMCE instance

https://github.com/ornIdaac/bioscape_workshop_sa





```
☑ Launcher
                              $_ Terminal 1
                                                         X
mthornton:~
20:27 $ cd
mthornton:~
20:27 $ ls -1
total 44
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Desktop
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Documents
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Downloads
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Music
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Pictures
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Public
drwxr-xr-x 3 mthornton users 6144 Sep 19 14:05 R
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Templates
drwxr-xr-x 2 mthornton users 6144 Sep 9 22:07 Videos
lrwxrwxrwx 1 mthornton users 7 Sep 30 12:50 shared -> /shared
drwxr-xr-x 3 mthornton users 6144 Sep 30 11:31 workspace
mthornton:~
20:27 $ git clone https://github.com/ornldaac/bioscape workshop sa.git
```



Jupyter Notebook Basics:

